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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,185	07/24/2003	Mira Kristina LaCous	S30.12-0006	1550
27367 7590 01/11/2007 WESTMAN CHAMPLIN & KELLY, P.A. SUITE 1400 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319			EXAMINER GERGISO, TECHANE	
			ART UNIT 2137	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	01/11/2007	PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	Application No. 10/626,185	Applicant(s) LACOUS, MIRA KRISTINA	
	Examiner Techane J. Gergiso T.G	Art Unit 2137	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 24 July 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-48 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>10/27/2003; 02/05/2004</u> . | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. This is a non-Final office Action in response to the application filed on July 24, 2003.
2. Claims 1-48 have been examined.
3. Claims 1-48 are pending.

#### *Claim Objections*

4. Claim 3 is objected to because of the following informalities: In claim 3: line 3; "computingdevice " needs space between the words and suggested as **computing device**. Appropriate correction is required.

#### *Claim Rejections - 35 USC § 103*

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gould et al. (hereinafter referred to as Gould, US Pat. No.: 6, 920, 561) in view of Michener et al. (hereinafter referred to as Michener, US Pat. No. 7, 028, 191).

As per claim 1:

Gould discloses a computer-implemented method for enhancing the security of informational interactions with a biometric device, comprising:

pre-establishing an encryption relationship between a computing device and the biometric device (column 1: lines 50-66; figure 3: 302-302; figure 4);

generating a session packet, encrypting it, and transmitting it to the biometric device (figure 4: 414-418); and

receiving a biometric information packet, decrypting it, and making a determination, based on a content of a collection of information contained in the decrypted biometric information packet, as to whether or not to utilize a collection of biometric data contained in the decrypted biometric information packet (figure 3: 420-426).

Gould does not explicitly teach encrypting the generated session packet. Michener, in an analogous art, however teaches encrypting the generated session packet (column 4: lines 55-67; column 5: lines 40-67; figure 5a, 5b; column 7: lines 15-60). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the method disclosed by Gould to include encrypting the generated session packet. This modification would have been obvious because a person having ordinary skill in the art would have been motivated by the desire a personal protection of electronic data that is small, easy to use, provides excellent protection to the PC/laptop use, that can operate in conjunction with corresponding devices at a central data gathering point to provide near real time validation of the information as suggested by Michener (in column 2: lines 55-62).

As per claim 2:

Michener discloses a method, wherein generating a session packet comprises generating a session number and storing it in the session packet (column 9: lines 5-40; Session-Random Number).

As per claim 3:

Michener discloses a method, further comprising storing the session number in a database associated with the computing device (Column 10: lines 1-25; figure 13: Table Lookup; data structure).

As per claim 4:

Michener discloses a method, wherein generating a session packet comprises obtaining a session key and storing it in the session packet (column 7: lines 10-30; column 9: lines 1-30).

As per claim 5:

Michener discloses a method, further comprising storing the session key in a database associated with the computer (Column 10: lines 1-25; figure 13: Table Lookup; data structure).

As per claim 6:

Michener discloses a method, wherein receiving a biometric information packet and decrypting it comprises receiving a biometric information packet and decrypting it with an

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encryption key that is complementarily related to the session key (figure 10: 104, 1008, 1010; column 13: 54-65; column 15: lines 5-10, lines 16-23).

As per claim 7:

Michener discloses a method, wherein obtaining a session key comprises generating a public key portion of a PKI key pair (column 17: lines 5-11).

As per claim 8:

Michener discloses a method, wherein receiving a biometric information packet and decrypting it comprises receiving a biometric information packet and decrypting it with a private key portion of the PKI key pair (column 17: lines 5-11).

As per claim 9:

Michener discloses a method, wherein receiving a biometric information packet and decrypting it comprises receiving a biometric information packet and decrypting it with an encryption component that is independent of the pre-established encryption relationship (figure 17).

As per claim 10:

Michener discloses a method, wherein generating a session packet comprises generating a session time stamp and storing it in the session packet (figure 13).

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As per claim 11:

Michener discloses a method, wherein generating a session packet comprises: generating a session number and storing it in the session packet; and obtaining a session key and storing it in the session packet (figure 170).

As pr claim 12:

Michener discloses a method, further comprising storing the session number, the session key and a session time stamp in a database associated with the computer (figure 17).

As per claim 13:

Michener discloses a method, wherein making a determination comprises comparing a session number to a list of valid values (column 9: lines 5-35).

As per claim 14:

Michener discloses a method, wherein making a determination comprises evaluating a session time stamp to determine whether the biometric information packet was received within a predetermined time period (column 2: lines 15-60; figure 17).

As per claim 15:

Michener discloses a method, wherein making a determination comprises comparing a data representation of a user's biometric information to at least one data representation of biometric information stored in a database (column 5: lines 20-40).

As per claim 16:

Michener discloses a method, wherein making a determination comprises: comparing a session number to a list of valid values; evaluating a session time stamp to determine whether the biometric information packet was received within a predetermined time period; and comparing a database representation of a user's biometric information to at least one data representation of biometric information stored in a database (figure 17; column 9: lines 5-35; column 5: lines 20-40).

As per claim 17:

Michener discloses a method, wherein pre-establishing an encryption relationship comprises storing a first encryption component with the computing device and a second encryption component with the biometric device, one of the first and second encryption components being configured to decrypt information that has previously been encrypted utilizing the other of the first and second encryption components (figure 8: 802-808; figure 10: 1002-1012; abstract).

AS per claim 18:

Michener discloses a method, wherein encrypting the session packet comprises encrypting the session packet utilizing one of the first and second encryption components (figure 10: 1002-1022; abstract).



As per claim 19:

Michener discloses a method, wherein pre-establishing an encryption relationship comprises storing a first part of a PKI key pair with the computing device and a second part of the PKI key pair with the biometric device (figure 10: 1002-1022; abstract).

As per claim 20:

Michener discloses a method, wherein encrypting the session packet comprises encrypting the session packet utilizing one of the first and second parts of the PKI key pair (figure 10: 1002-1022; abstract).

As per claim 21:

Michener discloses a method, wherein pre-establishing an encryption relationship comprises storing a first part of a static encryption key pair with the computing and a second part of the static encryption key pair with the biometric device, one of the first and second parts being configured to decrypt information that has previously been encrypted utilizing the other part (figure 10: 1002-1022; abstract).

As per claim 22:

Michener discloses a method, wherein encrypting the session packet comprises encrypting the session packet utilizing one of the first and second parts of the static encryption key pair (figure 10: 1002-1022; abstract).

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As per claim 23:

Gould discloses a data packet for transmission from a computer to a biometric device during a process of authentication within a biometric security system, the data packet comprising: a session key, the session key being an encryption key configured to be utilized to encrypt data (column 1: lines 50-66; figure 3: 302-302; figure 4; (figure 4: 414-418); figure 3: 420-426).

Gould does not explicitly teach encrypting the generated session packet. Michener, in an analogous art, however teaches encrypting the generated session packet (column 4: lines 55-67; column 5: lines 40-67; figure 5a, 5b; column 7: lines 15-60). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the method disclosed by Gould to include encrypting the generated session packet. This modification would have been obvious because a person having ordinary skill in the art would have been motivated by the desire a personal protection of electronic data that is small, easy to use, provides excellent protection to the PC/laptop use, that can operate in conjunction with corresponding devices at a central data gathering point to provide near real time validation of the information as suggested by Michener (in column 2: lines 55-62).

As per claim 24:

Michener discloses a method, wherein the session key is a public key portion of a PKI key pair (column 17: lines 5-11).

As per claim 25:

Michener discloses a method, further comprising a session number (Column 10: lines 1-25; figure 13: Table Lookup; data structure).

As per claim 26:

Michener discloses a method, wherein the session number is a value that corresponds to a session initiated when the data packet is generated (figure 8: 802-808).

As per claim 27:

Could discloses a biometric device configured to support a secure transfer of biometric information to a computing device, the biometric device comprising:

- a biometric information receiver configured to capture an individual's biometric information (figure 3: 308);
- a processor configured to process the biometric information and produce a digitized representation thereof (column 1: lines 50-66; figure 3: 302-302; figure 4);
- a memory accessibly connected to the processor (figure 2: 206); and
- an encryption component stored in the memory, the processor being configured to receive an encrypted session packet from the computing device and decrypt it utilizing the encryption component (figure 3: 420-426; column 1: lines 50-66; figure 3: 302-302; figure 4).

Gould does not explicitly teach encrypting the generated session packet. Michener, in an analogous art, however teaches encrypting the generated session packet (column 4: lines 55-67; column 5: lines 40-67; figure 5a, 5b; column 7: lines 15-60). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the method disclosed by Gould to include encrypting the generated session packet. This modification would have been obvious because a person having ordinary skill in the art would have been motivated by the desire a personal protection of electronic data that is small, easy to use, provides excellent protection to the PC/laptop use, that can operate in conjunction with corresponding devices at a central data gathering point to provide near real time validation of the information as suggested by Michener (in column 2: lines 55-62).

As per claim 28:

Michener discloses a biometric device, wherein the encryption component is implemented as firmware (column 7: lines 11-52).

As per claim 29:

Gould discloses a biometric device, wherein the encryption component is implemented in association with a flash memory application (column 3: 25-30).

As per claim 30:

Michener discloses a biometric device, wherein the encryption component is one part of a PKI key pair (column 17: lines 5-11).

As per claim 31:

Michener discloses a biometric device, wherein the encryption component is one part of a static encryption key pair (column 17: lines 5-11).

As per claim 32:

Michener discloses a biometric device, wherein the processor is further configured to place the digitized representation into a biometric information packet (column 4: lines 55-67; column 5: lines 40-67; figure 5a, 5b; column 7: lines 15-60).

As per claim 33:

Michener discloses a biometric device, wherein the processor is further configured to encrypt the biometric information packet utilizing a specialized encryption component contained in the session packet (column 4: lines 55-67; column 5: lines 40-67; figure 5a, 5b; column 7: lines 15-60).

As per claim 34:

Michener discloses a biometric device, wherein the processor is further configured to transfer the encrypted biometric information packet to the computer (figure 10: 1002-1022; abstract).

As per claim 35:

Gould discloses a computer readable medium having instructions stored thereon which, when executed by a computing device, cause the computing device to perform a series of steps comprising:

- receiving a session initiation command (figure 3: 302);
- generating a session packet (figure 4: 414-418);
- transmitting the encrypted session packet to a biometric device (column 5: lines 32-45);
- receiving a biometric information packet from the biometric device (column 5: lines 14-28);
- decrypting the biometric information packet (column 5: lines 32-45); and
- determining, based on a content of a collection of authentication information contained in the decrypted biometric information packet, whether or not to utilize a collection of biometric data contained in the decrypted biometric information packet (figure 3: 420-426).

Gould does not explicitly teach encrypting the generated session packet. Michener, in an analogous art, however teaches encrypting the generated session packet (column 4: lines 55-67; column 5: lines 40-67; figure 5a, 5b; column 7: lines 15-60). Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the method disclosed by Gould to include encrypting the generated session packet. This modification would have been obvious because a person having ordinary skill in the art would have been motivated by the desire a personal protection of electronic data that is small, easy to use, provides excellent protection to the PC/laptop use, that can operate in conjunction with

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corresponding devices at a central data gathering point to provide near real time validation of the information as suggested by Michener (in column 2: lines 55-62).

As per claim 36:

Michener discloses a computer readable medium, wherein generating a session packet comprises generating a session number and storing it in the session packet (column 9: lines 5-40; Session-Random Number).

As per claim 37:

Michener discloses a computer readable medium, further comprising the step of storing the session number in a database associated with the computing device (Column 10: lines 1-25; figure 13: Table Lookup; data structure).

As per claim 38:

Michener discloses a computer readable medium, wherein generating a session packet comprises obtaining a session key and storing it in the session packet (column 7: lines 10-30; column 9: lines 1-30).

As per claim 39:

Michener discloses a computer readable medium, further comprising the step of storing the session key in a database associated with the computer (Column 10: lines 1-25; figure 13: Table Lookup; data structure).

As per claim 40:

Michener discloses a computer readable medium, wherein receiving a biometric information packet and decrypting it comprises receiving a biometric information packet and decrypting it with an encryption key that is complementarily related to the session key (figure 10: 104, 1008, 1010; column 13: 54-65; column 15: lines 5-10, lines 16-23).

As per claim 41:

Michener discloses a computer readable medium, wherein obtaining a session key comprises generating a public key portion of a PKI key pair (column 17: lines 5-11).

As per claim 42:

Michener discloses a computer readable medium, wherein receiving a biometric information packet and decrypting it comprises receiving a biometric information packet and decrypting it with a private key portion of the PKI key pair (column 17: lines 5-11).

As per claim 43:

Michener discloses a computer readable medium, wherein generating a session packet comprises generating a session time stamp and storing it in the session packet (figure 13).

As per claim 44:



Michener discloses a computer readable medium, wherein determining comprises comparing a session number to a list of valid values (column 9: lines 5-35).

As per claim 45:

Michener discloses a computer readable medium, wherein determining comprises evaluating a session time stamp to determine whether the biometric information packet was received within a predetermined time period (column 2: lines 15-60; figure 17).

As per claim 46:

Michener discloses a computer readable medium, wherein encrypting the session packet comprises encryption the session packet with a first encryption component that is complementarily related to a second encryption component maintained on the biometric device, one of the first and second encryption components being configured to decrypt information that has previously been encrypted utilizing the other of the first and second encryption components (figure 8: 802-808; figure 10: 1002-1012; abstract).

As per claim 47:

Michener discloses a computer readable medium, wherein the first and second encryption components are a PKI key pair (figure 10: 1002-1022; abstract).

As per claim 48:

Michener discloses a computer readable medium, wherein the first and second encryption components are a static encryption key pair (figure 10: 1002-1022; abstract).

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

See the notice of reference cited in form PTO-892 for additional prior art

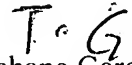
### ***Contact Information***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Techane J. Gergiso whose telephone number is (571) 272-3784 and fax number is ~~(571) 273-3784~~. The examiner can normally be reached on 9:00am - 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Techane Gergiso

Patent Examiner

Art Unit 2137

January 6, 2007

  
EMMANUELL L. MOISE  
SUPERVISORY PATENT EXAMINER